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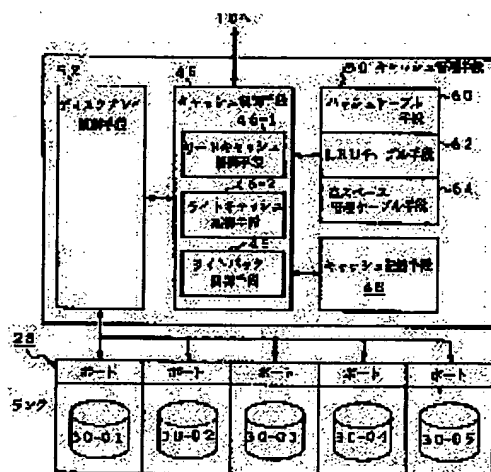
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## (54) DISK CACHE DEVICE

## (57)Abstract:

**PROBLEM TO BE SOLVED:** To provide a device for optimizing a disk cache function whose object is the disk array device of a RAID(redundant arrays of inexpensive disks) type.

**SOLUTION:** This disk cache device demonstrates the maximum effects of providing a free space management table 64 used for the management of a cache memory 48 and using the cache memory 48 for staging from a disk device 30 when the cache memory 48 erroneously hits a read request and efficiently performs a cache processing whose object is a disk array operated in RAID's 0, 1, 3 and 5. Effective data are prepared on a cache block so as to enable access like the RAID 3 capable of calculating a parity without the need of disk read even in the operation of the RAID 5.



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